

^{38}K $Z = 19$ $N = 19$ adopted link ENSDF link

Based on ENSDF from Oct 2022, and mass evaluation from 2020

BE = 320.646 (0.000) MeV

Qbeta+ = 5.914 (0.000) MeV

	Energy T	J+	J-	J-other	T1/2
38K 1	0.000	3+			1 7.651 M 19
38K 2	0.130 1	0+			2 924.4 MS 3
38K 3	0.459	1+			3 7.0 PS 6
38K 4	1.698	1+			4 48 FS 10
38K 5	2.401 1	2+			5 52 FS 15
38K 6			2.613 3-		6 6 PS +5-2
38K 7				2.646 (4)-	7 0.98 NS 10
38K 8			2.827 1-		8 0.22 PS 5
38K 9			2.869 2-		9 3.1 PS 8
38K 10			2.993 0-		10 114 FS 30
38K 11				3.040	11
38K 12				3.315 (1+,2-,3+)	12 1.70 PS 29
38K 13	3.341	1+			13 38 FS LT
38K 14				3.420 (6)-	14 70 PS 10
38K 15	3.430	2+			15 0.12 PS LT
38K 16				3.458 (7)+	16 21.95 US 11
38K 17				3.615 (3,5)-	17 0.5 PS +6-2
38K 18	3.668	3+			18 91 FS 35
38K 19				3.688 (3)	19 0.28 PS +11-8
38K 20				3.704 (1+,2,3+)	20 0.76 PS GT
38K 21				3.739 (1+:5+)	21
38K 22				3.790	22
38K 23			3.814 2-		23
38K 24				3.841	24
38K 25	3.856	1+			25 83 FS LT
38K 26			3.931 2-		26
38K 27	3.976	1+			27 40 FS LT
38K 28				4.175 0 (1)+	28
38K 29				4.214 (1-)	29
38K 30				4.318 (1+:5+)	30
38K 31				4.333 (0-:4-)	31 0.24 PS +49-17
38K 32				4.395 (1+:5+)	32
38K 33				4.410 (0:3+)	33
38K 34				4.452 2	34
38K 35				4.460 3	35
38K 36				4.491	36
38K 37				4.505	37

38K	38	|	|	|	4.588		38
38K	39	|	|	|	4.598	1-,2-,3-	39
38K	40	|	|	|	4.616		40

38K	41	|	|	|	4.641	(1:5)-	41
38K	42	|	|	|	4.668	1+,2+	42
38K	43	|	|	|	4.701	(1+,2+)	43
38K	44	|	|	|	4.723	(0:3+)	44
38K	45	|	|	|	4.750		45
38K	46	|	|	|	4.806		46
38K	47	|	|	|	4.848		47
38K	48	|	|	|	4.901	(0+:4+)	48
38K	49	|	|	|	4.971		49
38K	50	|	|	|	4.990	1+,2+	50

38K	51	|	|	|	5.048	(1:5)-	51
38K	52	|	|	|	5.086		52
38K	53	|	|	|	5.104	(5+,6+,7+)	53
38K	54	|	|	|	5.133	(0+:4+)	54
S-p	=	5.142	(	0.000)	-----		
38K	55	|	|	|	5.192		55
38K	56	|	|	|	5.216	(0:3+)	56
38K	57	|	|	|	5.254	(9+)	57
38K	58	|	|	|	5.254	1+,2+	58
38K	59	|	|	|	5.286	(1+,2+,3+)	59
38K	60	|	|	|	5.296		60

38K	61	|	|	|	5.300	(6-)	61
38K	62	|	|	|	5.307		62
38K	63	|	|	|	5.333		63
38K	64	|	|	|	5.407		64
38K	65	|	|	|	5.439	(1,2)+	65
38K	66	|	|	|	5.459	(1+,2+)	66
38K	67	|	|	|	5.480		67
38K	68	|	|	|	5.549	1+,2+	68
38K	69	|	|	|	5.601		69
38K	70	|	|	|	5.620	1+,2+	70

38K	71	|	|	|	5.677	(1-,2-,3-)	71
38K	72	|	|	|	5.693		72
38K	73	|	|	|	5.733	1+,2+	73
38K	74	|	|	|	5.749		74
38K	75	|	|	|	5.771		75
38K	76	|	|	|	5.795		76
38K	77	|	|	|	5.810	1+,2+	77
38K	78	|	|	|	5.828		78
38K	79	|	|	|	5.852	1+,2+	79
38K	80	|	|	|	5.869		80

38K	81	|	|	|	5.891	1+,2+	81

38K	82	|	|	|	5.900	(6-)	82
38K	83	|	|	|	5.934		83
38K	84	|	|	|	5.944	(1:5)-	84
38K	85	|	|	|	5.972	1+,2+	85
38K	86	|	|	|	5.986	1+,2+	86
38K	87	|	|	|	6.002		87
38K	88	|	|	|	6.022		88
38K	89	|	|	|	6.230		89
38K	90	|	|	|	6.380	(0:4)+	90

38K	91	|	|	|	6.590	(0:4)+	91
38K	92	|	|	|	6.720	(1+)	92
S-alpha=	6.786	(	0.000)	-----			
38K	93	|	|	|	7.000		93
38K	94	|	|	|	7.130	(0:4)+	94
38K	95	|	|	|	7.320	(1+)	95
38K	96	|	|	|	7.397	(10-)	96
38K	97	|	|	|	7.730		97
38K	98	|	|	|	8.693	(12-)	98
38K	99	|	|	|	8.748	(11-)	99
38K	100	|	|	|	9.700		100

38K	101	|	|	|	9.880	(3+)	101
38K	102	|	|	|	9.900	(1+)	102

S-p	=	5.142	(	0.000)	-----
S-n	=	12.072	(	0.000)	-----
S-2p	=	13.857	(	0.000)	-----
S-2n	=	27.526	(	0.000)	-----
S-alpha=	6.786	(	0.000)	-----	

S+p	=	-5.771	(	0.001)
S+n	=	-13.078	(	0.000)
S+2p	=	-6.301	(	0.003)
S+2n	=	-20.877	(	0.000)
S+alpha	=	-5.745	(	0.000)

gap p	=	-0.629	(	0.001)
gap n	=	-1.006	(	0.000)
gap 2p	=	7.556	(	0.003)
gap 2n	=	6.649	(	0.000)
gap alpha	=	1.040	(	0.000)